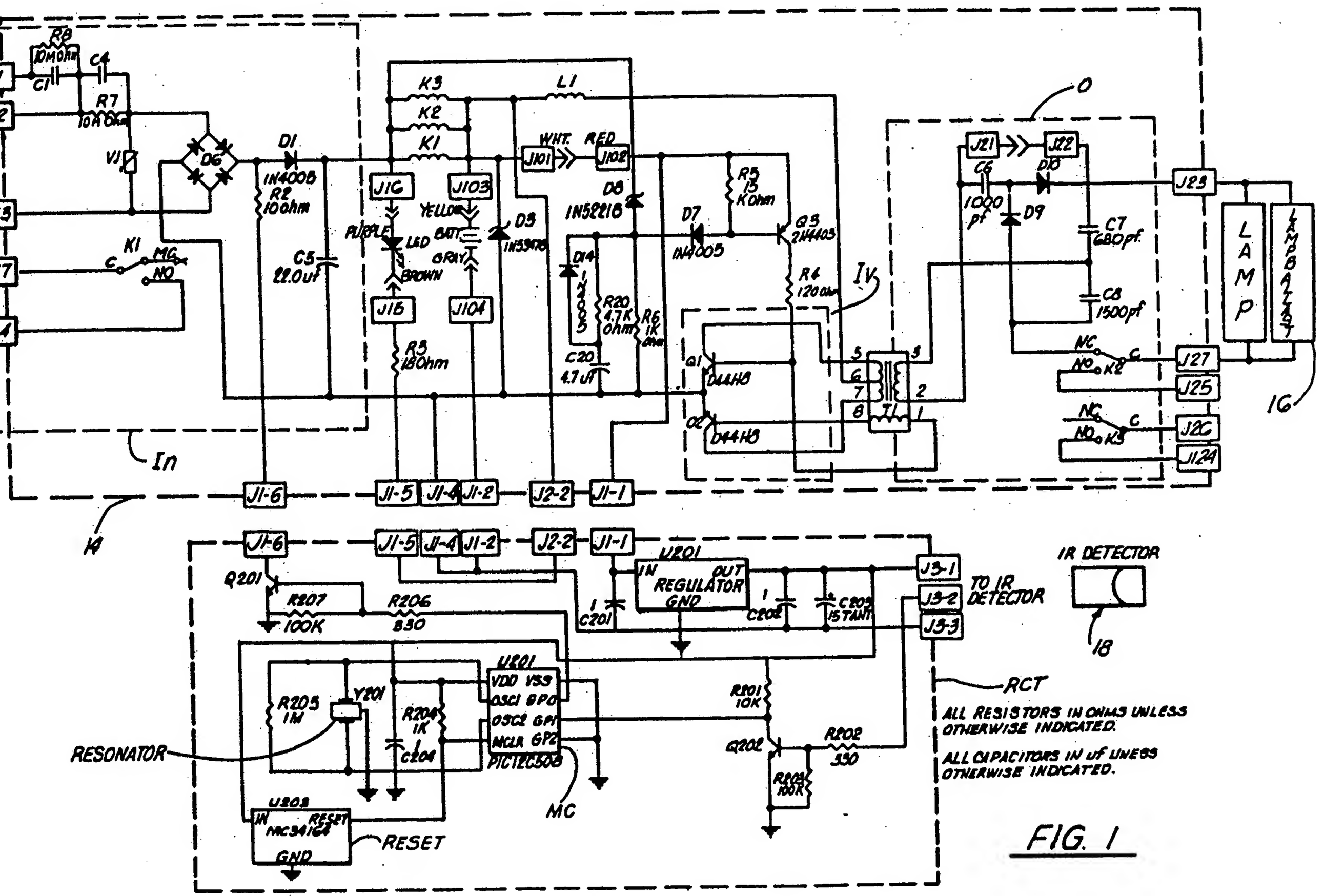
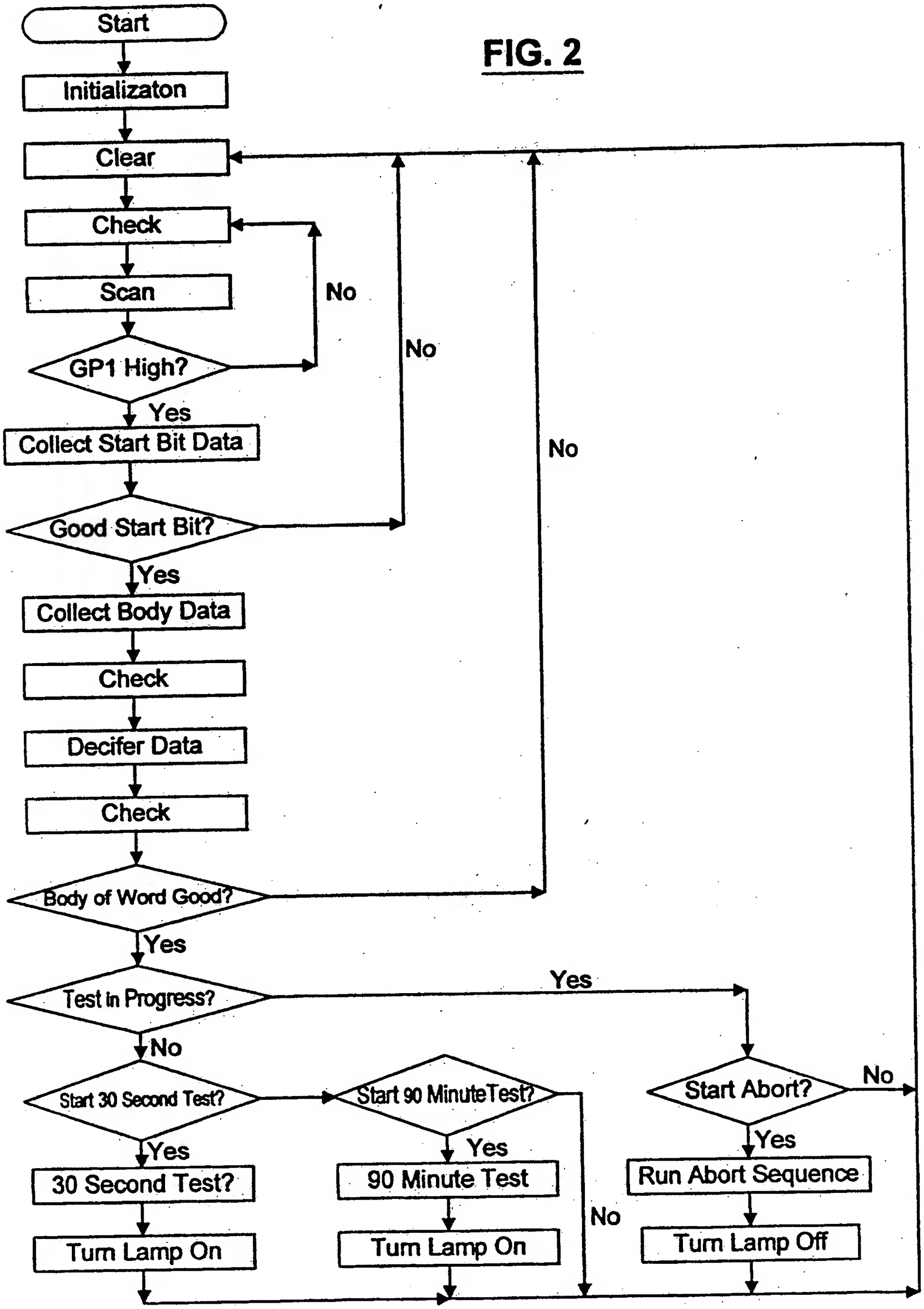
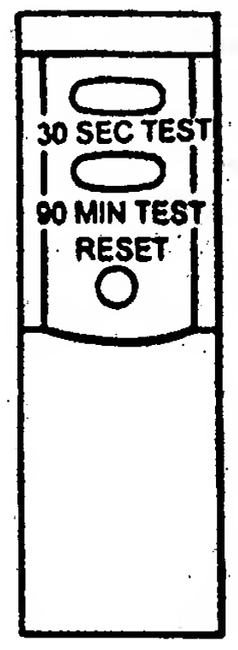

R8
10M0hm
C4
C1
J11
J12
J13
J17
J14
R7
10A0hm
VJ
DG
D1
IN4005
R2
100ohm
C5
22.0uf
K1
MG
NO
K3
K2
K1
L1
J1C
J103
J101
J102
WHT.
RED
YELLOW
PURPLE
LED
BATT
GRAY
BROWN
D3
IN5978
J15
J104
R3
180hm
D8
IN5221B
D7
IN4005
D14
1N4005
R20
4.7K ohm
R6
1K ohm
C20
4.7uf
R5
15 K0hm
Q3
2N4403
R4
120ohm
IV
Q1
D44H8
Q2
D44H8
T1
5
6
7
8
3
2
1
O
J21
J22
C6
1000 pf
D10
D9
J23
C7
680pf
C8
1500pf
NC
NO
K2
K3
J27
J25
J26
J24
LAMP
LAMBALAST
16
In
14
J1-6
J1-5
J1-4
J1-2
J2-2
J1-1
Q201
R207
100K
R206
330
C201
U201
IN
OUT
REGULATOR
GND
C202
C203
15TANT
J3-1
J3-2
J3-3
TO IR DETECTOR
IR DETECTOR
18
RCT
R205
1M
Y201
R204
1K
C204
U201
VDD VSS
OSC1 GP0
OSC2 GP1
MCLR GP2
PIC12C508
RESONATOR
MC
R201
10K
Q202
R202
330
R203
100K
U203
IN
RESET
MC34164
GND
RESET
ALL RESISTORS IN OHMS UNLESS OTHERWISE INDICATED.
ALL CAPACITORS IN uf UNLESS OTHERWISE INDICATED.

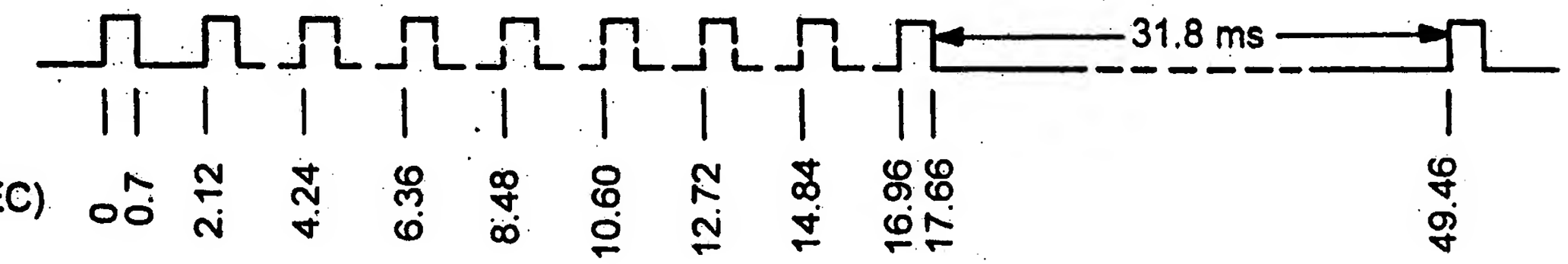
FIG. 1

FIG. 2


Start
Initializaton
Clear
Check
Scan
GP1 High?
No
Yes
Collect Start Bit Data
Good Start Bit?
No
Yes
Collect Body Data
Check
Decifer Data
Check
Body of Word Good?
No
Yes
Test in Progress?
Yes
No
Start 30 Second Test?
Start 90 MinuteTest?
Start Abort?
No
Yes
Yes
Yes
30 Second Test?
90 Minute Test
Run Abort Sequence
Turn Lamp On
Turn Lamp On
Turn Lamp Off
No



KEY	START DO	D1	D2	D3	D4	D5	D6	D7	D8	BREAK	REPEAT IF KEY HELD DOWN START DO
30 SEC	1	1	0	1	1	1	1	1	1	000000000000000	1
90 MIN	1	1	1	1	0	1	1	1	1	000000000000000	1
RESET	1	1	1	1	1	1	0	1	1	000000000000000	1



NOTES:

1. A VALUE OF "1" INDICATES THAT I.R. IS TRANSMITTED FOR 0.7 ms A VALUE OF "0" INDICATES THAT I.R. IS NOT TRANSMITTED FOR THAT 0.7 ms TIME PERIOD.
2. MESSAGE LENGTH = 17.66 ms. START BIT DO, 8 BITS OF DATA.
3. TIMING IS SIMILAR TO SHARP TV CODE 00121.
4. THE BREAK AND REPEAT OCCUR IF KEY IS HELD DOWN.
5. RECEIVER IC IS SHARP GP1U901X.
6. CARRIER FREQUENCY IS 38KHZ.

PULSE WIDTH = .7 ms
T = 2.12 ms
"ON" DUTY CYCLE = 33%

FIG. 3

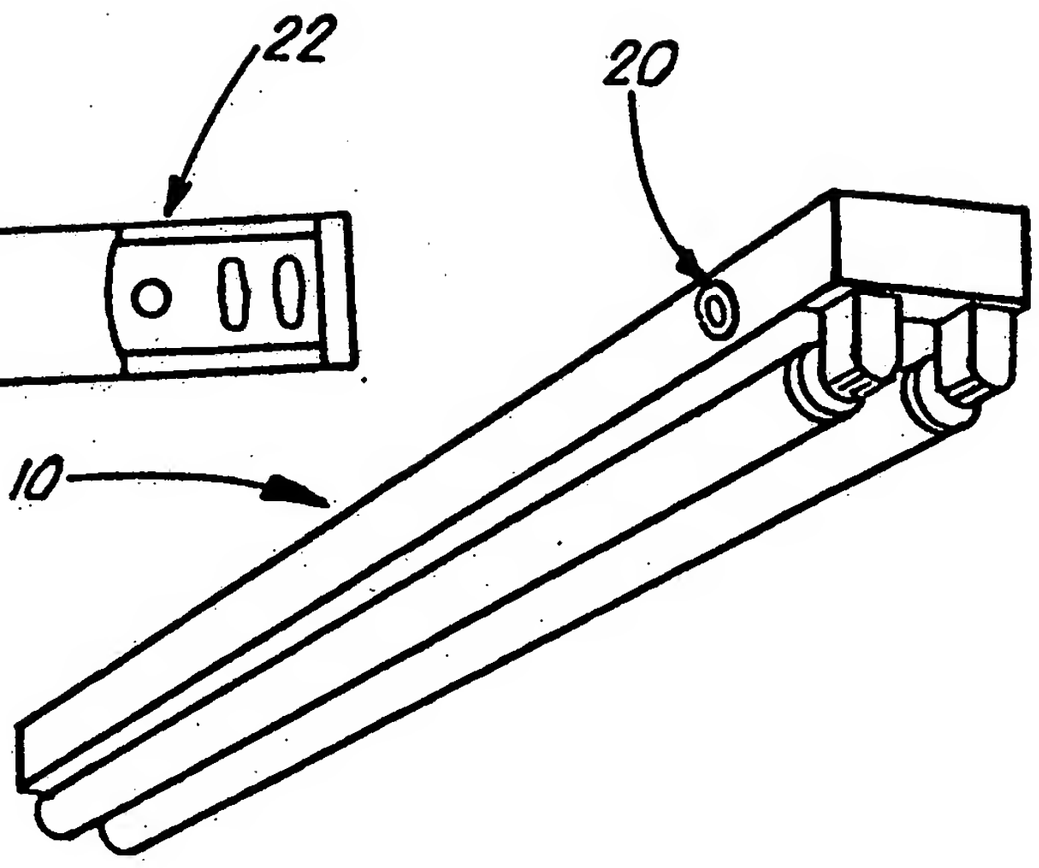


FIG. 4

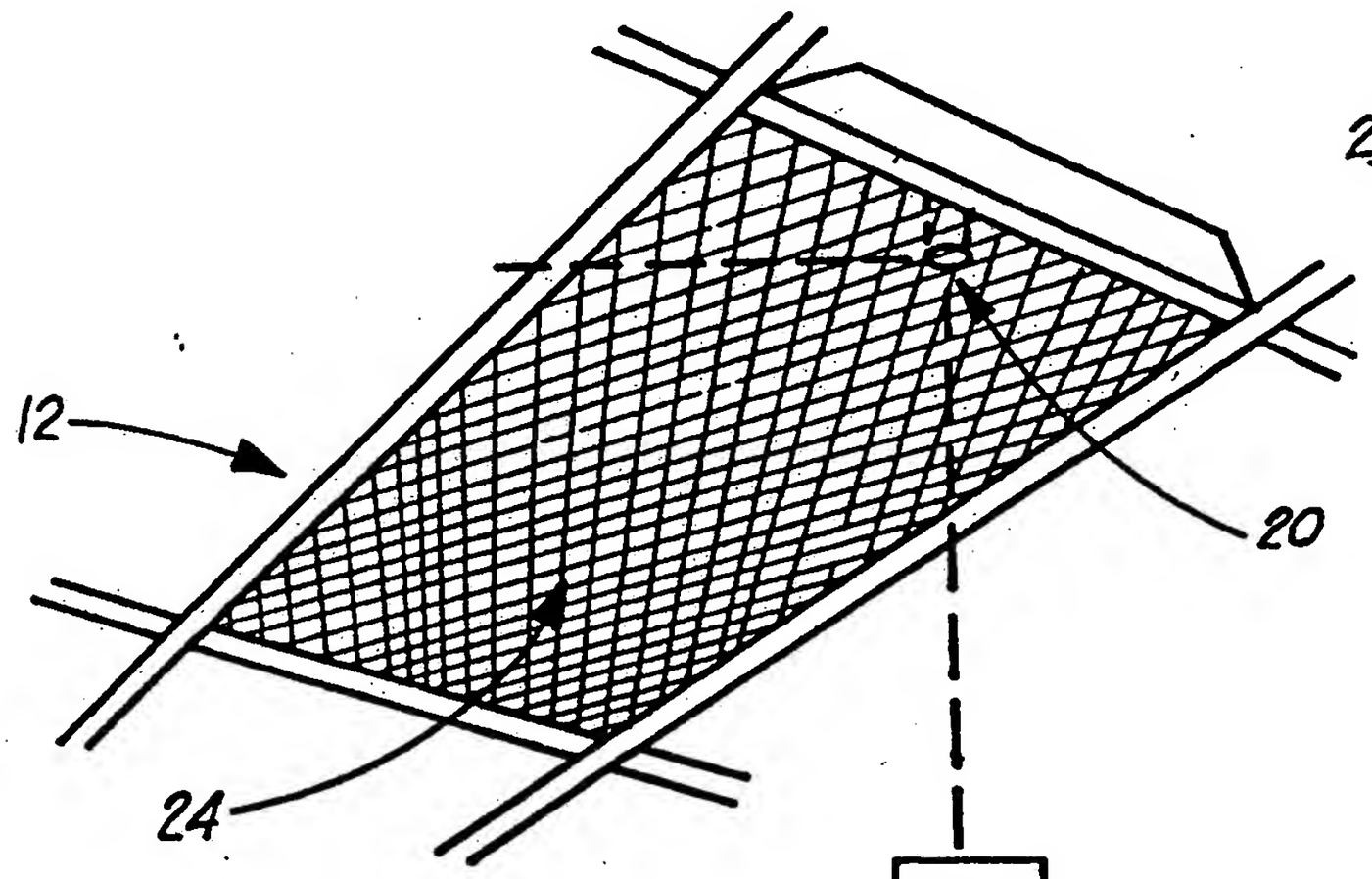


FIG. 5

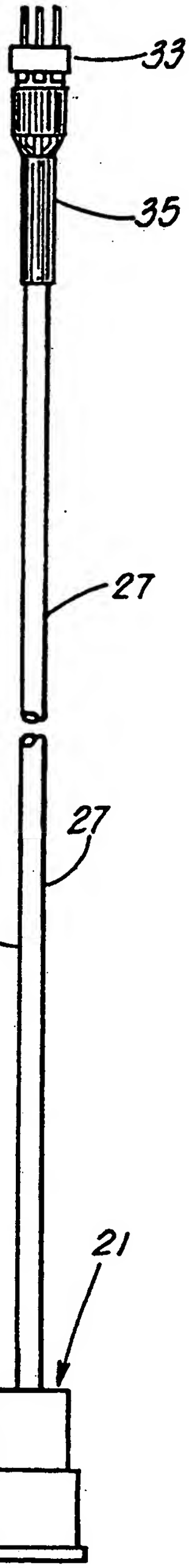


FIG. 6

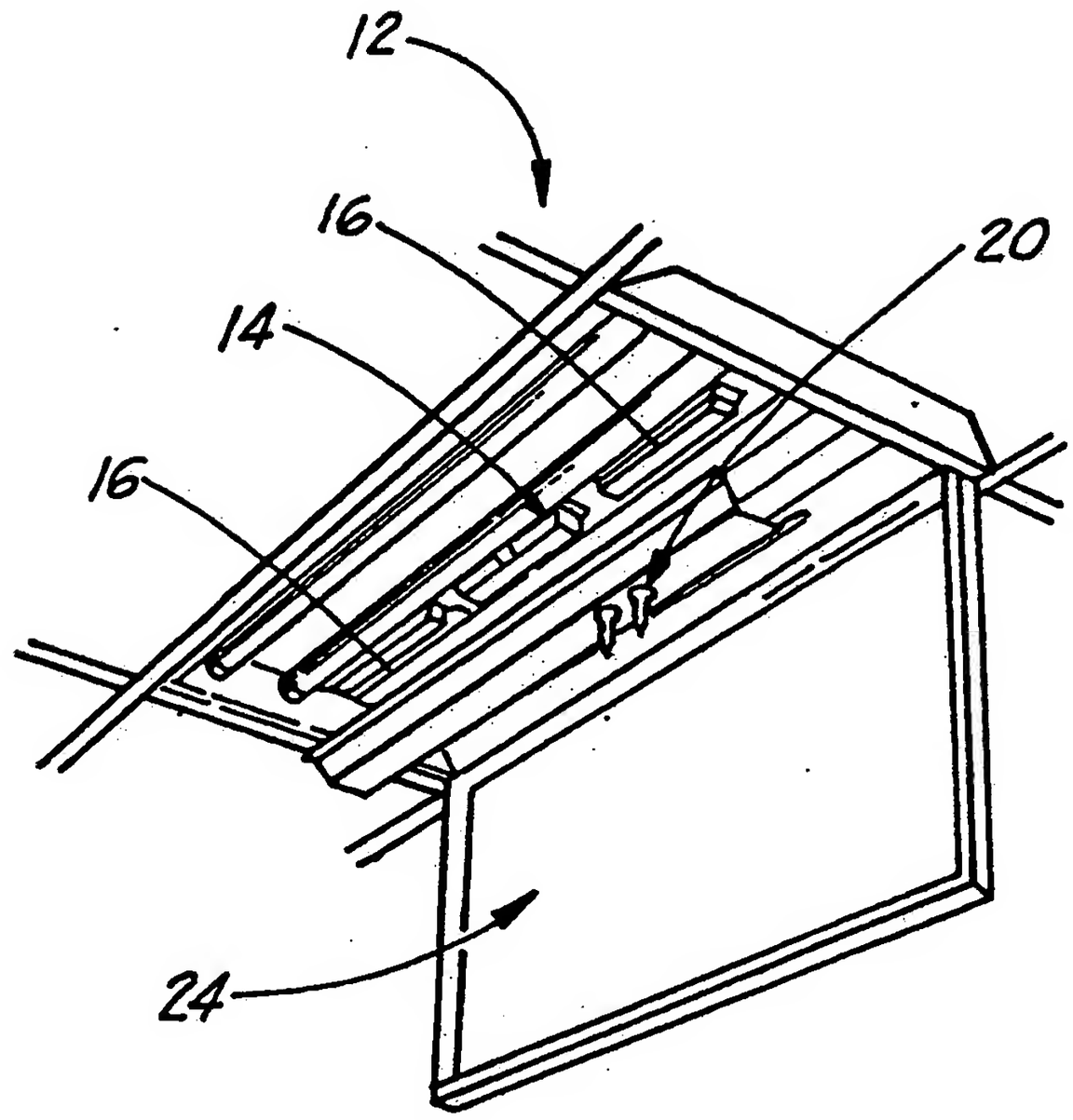


FIG. 7

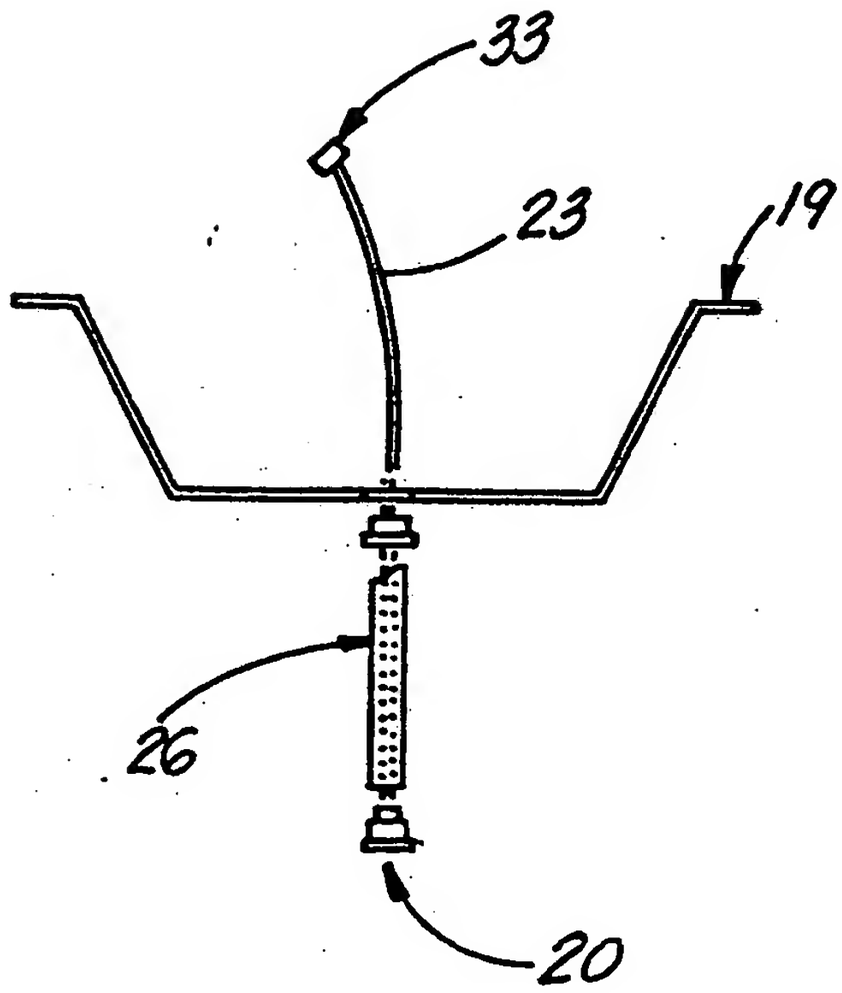


FIG. 8

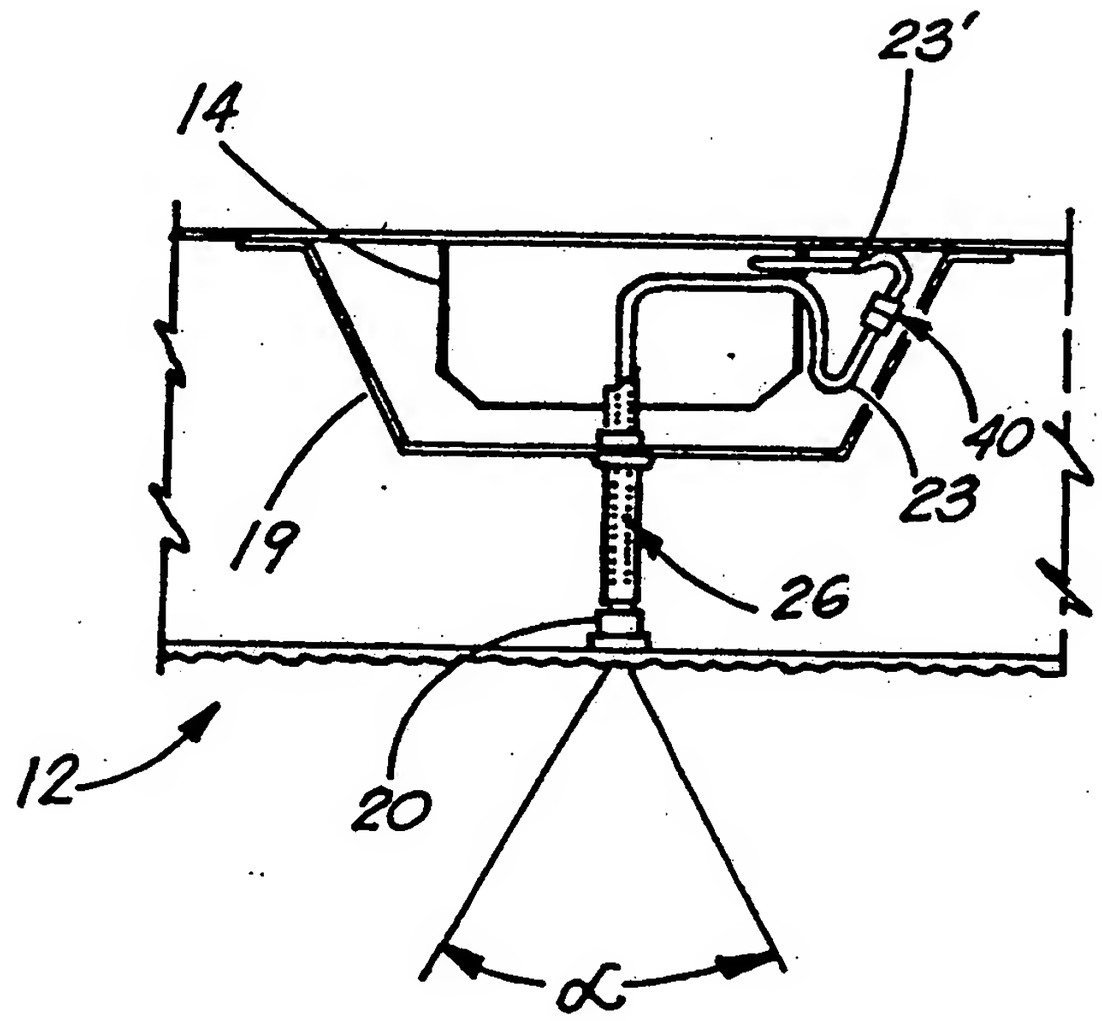


FIG. 9

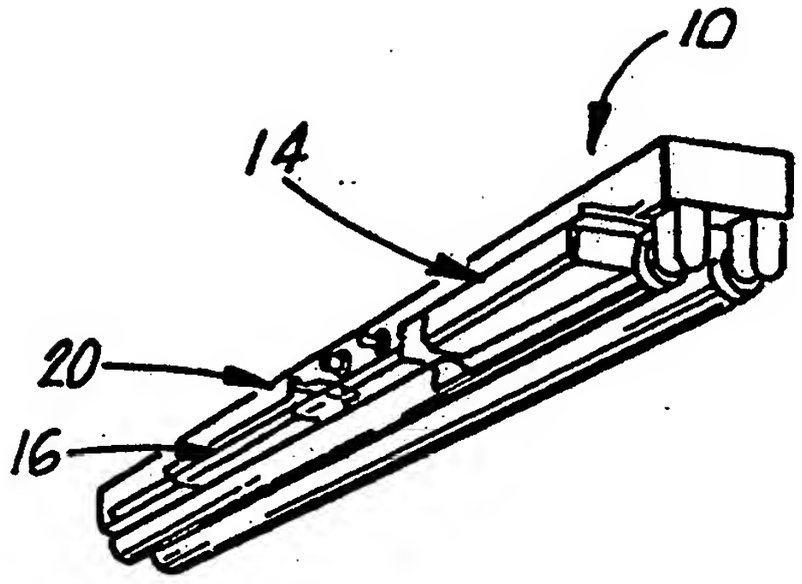


FIG. 10

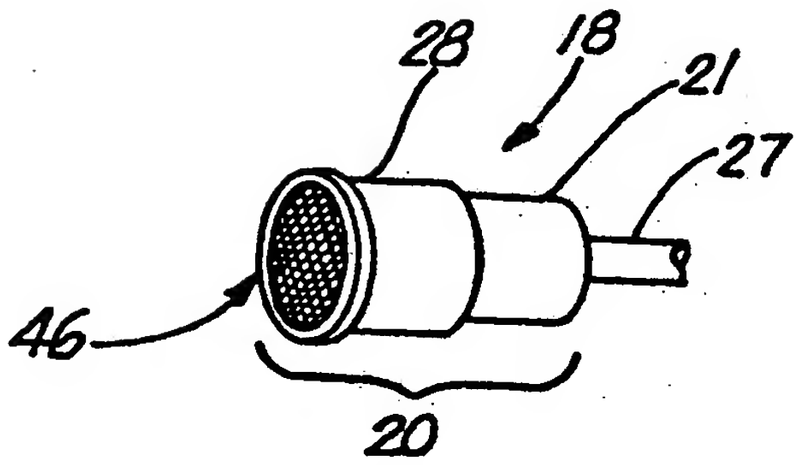


FIG. 12

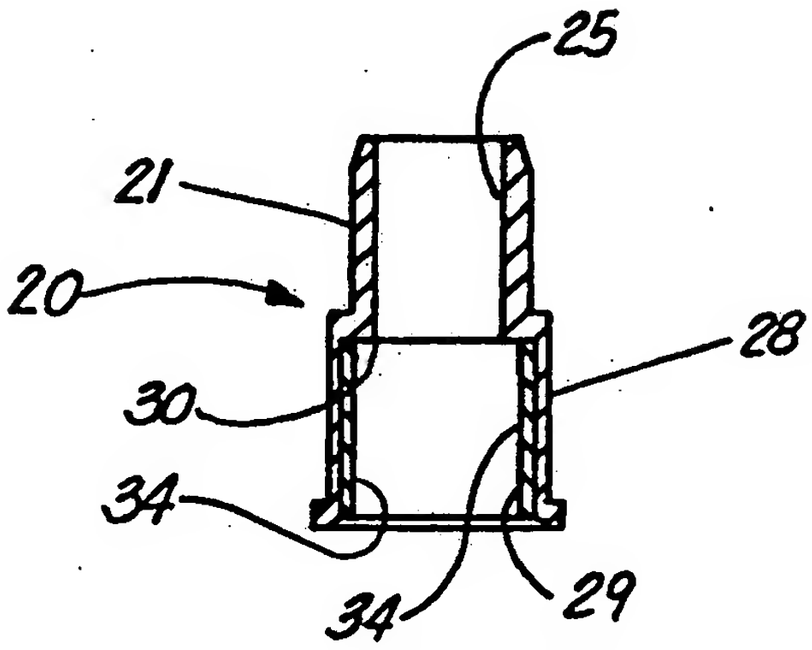


FIG. 14

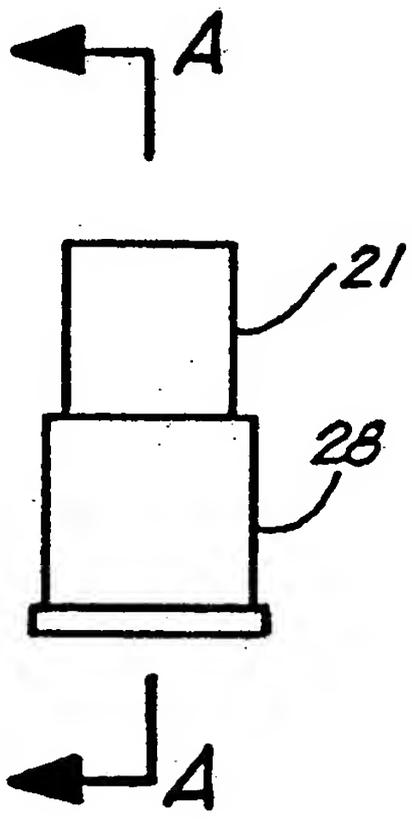


FIG. 13

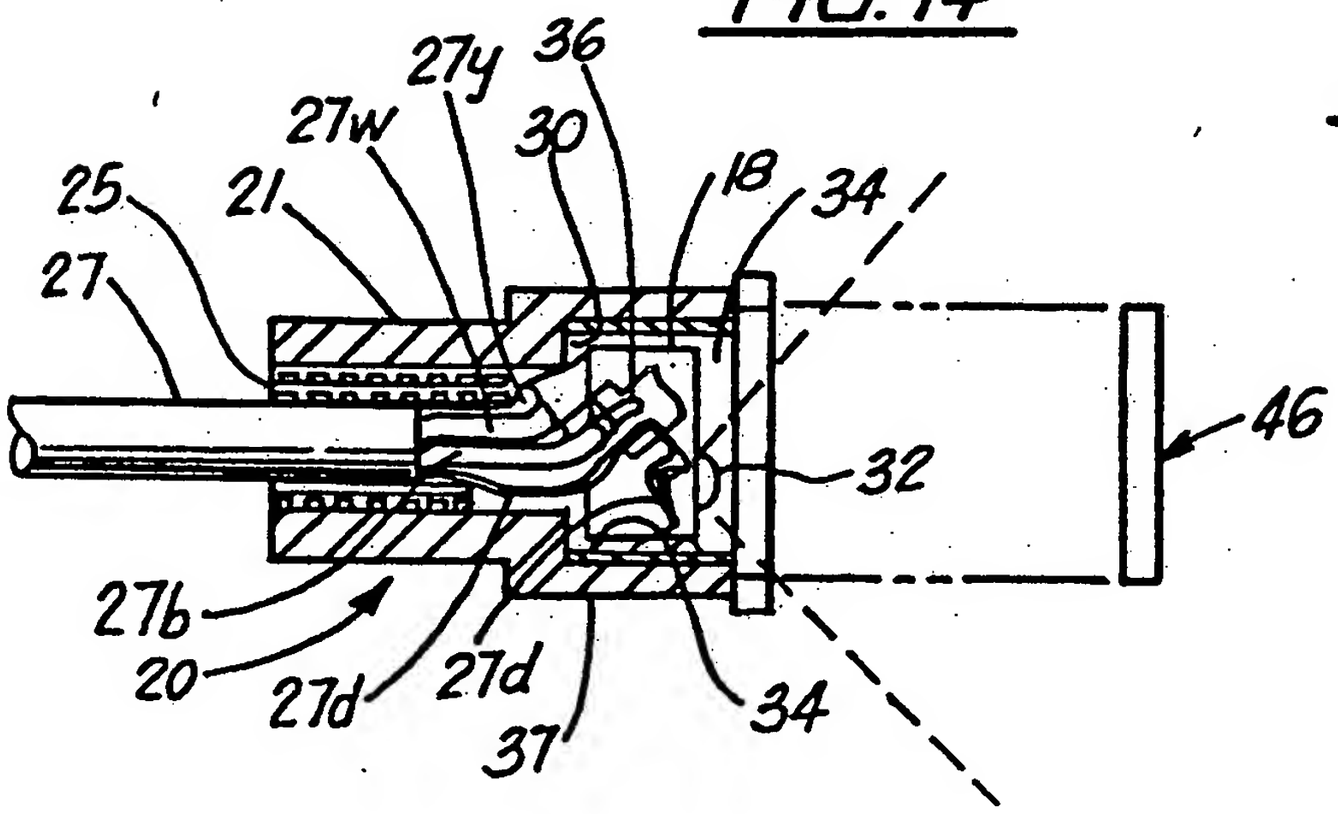


FIG. 11

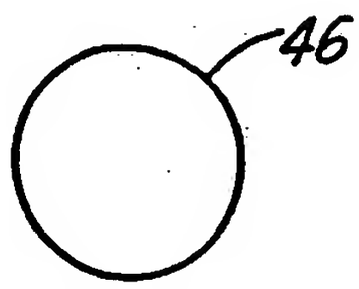


FIG. 15

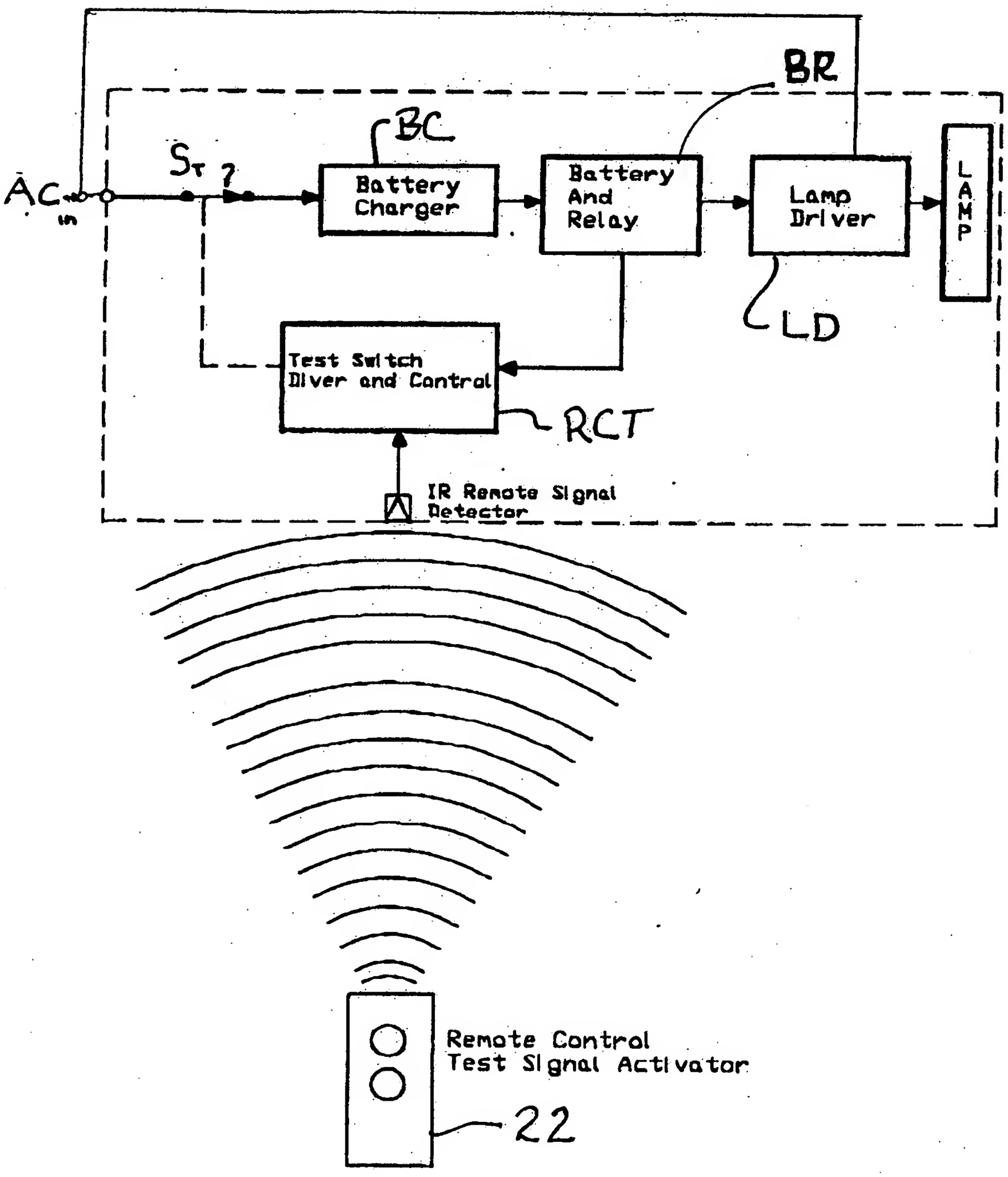

BR
BC
AC in
ST 2
Battery Charger
Battery And Relay
Lamp Driver
LAMP
LD
Test Switch Diver and Control
RCT
IR Remote Signal Detector
Remote Control Test Signal Activator
22

FIG. 16

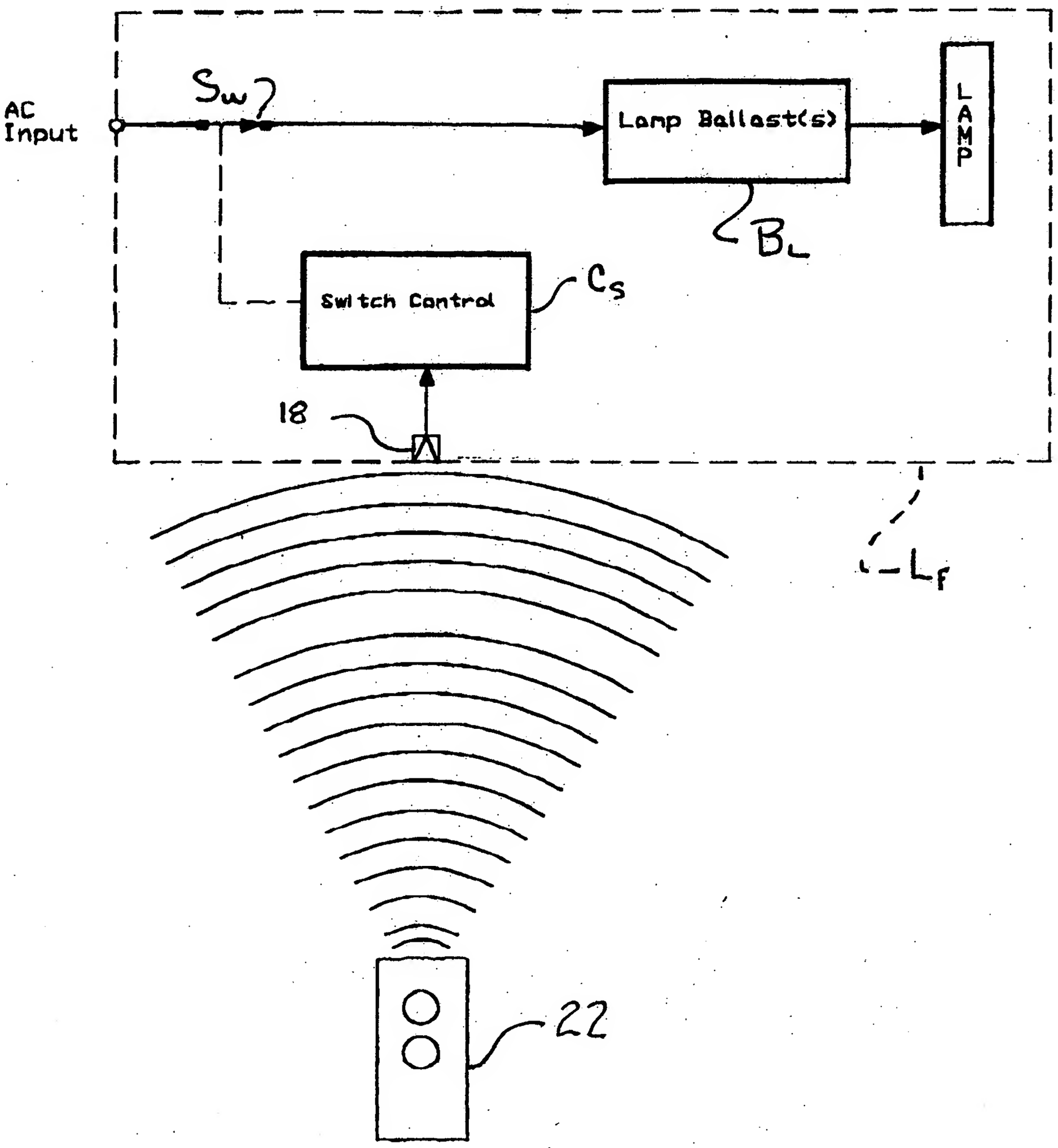


FIG. 17

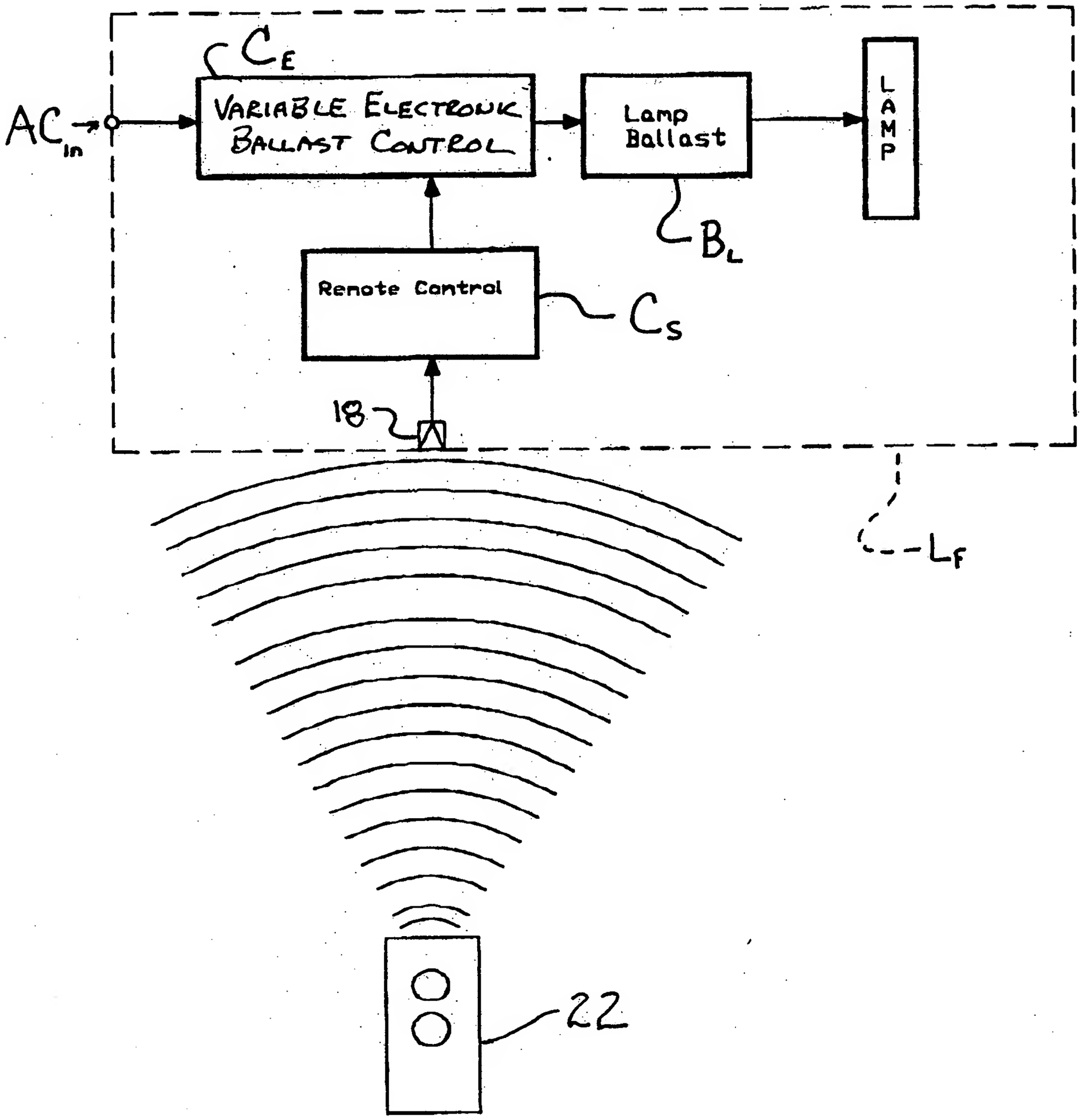

C_E
VARIABLE ELECTRONIC BALLAST CONTROL
AC_{in}
Lamp Ballast
LAMP
B_L
Remote Control
C_S
18
L_F
22

FIG. 18